

AMENDMENT

In the claims:

For the Examiner's convenience all pending claims are presented herein. Those claims that remain unchanged by this amendment are prefixed with "(Unchanged)". Please amend the claims as follows:

- 1 1. (Unchanged) A storage medium having stored therein a plurality of programming
2 instructions executable by a processor, wherein when executed, the programming
3 instructions implement a multi-media call application that effectuate quality of
4 service (QOS) guaranty for a packet based multi-media call (CALL) through call
5 associated individual media stream bandwidth control.
- 1 2. (Unchanged) The storage medium as set forth in Claim 1, wherein the programming
2 instructions determine if a sub-net bandwidth manager (SBM) that manages network
3 bandwidth is connected to a local area network (LAN) through which the CALL is
4 conducted, and if the SBM is connected to the LAN, register the CALL with the SBM
5 and reserve with the SBM bandwidth for subsequent allocation to media streams of
6 the CALL.
- 1 3. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming
2 instructions make the determination, registration and bandwidth reservation for
3 subsequent allocation to media streams of the CALL as an integral part of
4 establishing a connection for the CALL.
- 1 4. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming
2 instructions further subsequently cause the SBM to allocate the reserved bandwidth
3 for the CALL to individual media streams of the CALL.

1 5. (Unchanged) The storage medium as set forth in Claim 4, wherein the programming
2 instructions invoke a bandwidth reservation service to request the SBM to allocate the
3 reserved bandwidth for the CALL to individual ones of the media streams of the
4 CALL, providing call level information to the bandwidth reservation service to enable
5 the bandwidth reservation service to include the call level information in the requests
6 for the SBM.

1 6. (Unchanged) The storage medium as set forth in Claim 5, wherein the programming
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a
3 portion of the reserved bandwidth for the CALL to an individual media stream of the
4 CALL while establishing an individual channel for the individual media stream
5 during the CALL.

1 7. (Unchanged) The storage medium as set forth in Claim 1, wherein the CALL is an
2 ITU-T H.323 compatible video conference call.

1 8. (Unchanged) The storage medium as set forth in Claim 7, wherein the programming
2 instructions further determine if a call level admission control gatekeeper is
3 connected to a local area network (LAN) through which the CALL is to be
4 conducted, and if the call level admission control gatekeeper is connected to the
5 LAN, register the CALL with the call level admission control gatekeeper, the
6 registration being made in a manner that causes the call level admission control
7 gatekeeper to determine whether to admit the CALL into the LAN without taking into
8 consideration bandwidth requirement of the CALL.

1 9. (Unchanged) The storage medium as set forth in Claim 8, wherein the programming
2 instructions make the determination and conditional registration as an integral part of
3 establishing a connection for the CALL.

- 1 10. (Unchanged) A storage medium having stored therein a plurality of programming
2 instructions executable by a processor, wherein when executed, the programming
3 instructions implementing a bandwidth reservation service that requests a sub-net
4 bandwidth manager (SBM) to allocate a portion of reserved bandwidth for a packet
5 based multi-media call (CALL) to an individual media stream of the CALL,
6 providing the SBM with call level information to allow the SBM to associate the
7 individual media stream of the CALL with the reserved bandwidth of the CALL, the
8 SBM managing network bandwidth of a local area network (LAN) through which the
9 CALL is conducted.
- 1 11. (Unchanged) The storage medium as set forth in Claim 10, wherein the programming
2 instructions request the SBM to allocate a portion the reserved bandwidth of the
3 CALL to the individual media stream of the CALL while establishing an individual
4 channel for the individual media stream during the CALL.
- 1 12. (Unchanged) The storage medium as set forth in Claim 10, wherein the programming
2 instructions are integral part of an operating system.
- 1 13. (Unchanged) The storage medium as set forth in Claim 10, wherein the CALL is an
2 ITU-T H.323 compatible video conference call.
- 1 14. (Unchanged) A method comprising:
2 (a) a multi-media call application first reserving bandwidth for media streams
3 of a packet based multi-media call (CALL) at a call level with a sub-net
4 bandwidth manager (SBM) that manages network bandwidth of a local area
5 network (LAN) through which the CALL is to be conducted; and
6 (b) the multi-media call application subsequently causing the SBM to allocate
7 the reserved bandwidth for the CALL to individual media streams of the

8 CALL, causing call level information to be provided to the SBM to enable the
9 SBM to associate the individual media streams of the CALL with the reserved
10 bandwidth of the CALL.

1 15. (Unchanged) The method as set forth in Claim 14, wherein (a) is performed as an
2 integral part of the multi-media call application establishing a connection for the
3 CALL.

1 16. (Unchanged) The method as set forth in Claim 14, wherein (b) comprises the multi-
2 media call application invoking a bandwidth reservation service to request the SBM
3 to allocate the reserved bandwidth for the CALL to the individual media streams of
4 the CALL, providing the bandwidth reservation service with call level information for
5 inclusion in the requests to enable the SBM to associate the individual media streams
6 of the CALL with the CALL.

1 17. (Unchanged) The method as set forth in Claim 16, wherein (b) is performed on a per
2 individual media stream basis as an integral part of establishing an individual channel
3 for the individual media stream.

1 18. (Unchanged) The method as set forth in Claim 14, wherein the method further
2 comprises (c) the multi-media call application determining if a call level admission
3 control gatekeeper is connected to the LAN while establishing connection for the
4 CALL.

1 19. (Unchanged) The method as set forth in Claim 18, wherein if the call level admission
2 control gatekeeper is connected to the LAN, (c) further comprises the multi-media
3 application registering the CALL with the call level admission control gatekeeper in a
4 manner that causes the gatekeeper to determine whether to admit the CALL into the
5 LAN without taking into consideration bandwidth requirement of the CALL.

- 1 20. (Unchanged) An apparatus comprising:
2 a storage medium having stored therein a plurality of programming
3 instructions implementing a multi-media call application that effectuates
4 quality of service (QOS) guaranty for a packet based multi-media call (CALL)
5 using call associated individual media stream bandwidth control; and
6 a processor coupled to the storage medium that operates to execute the
7 programming instructions.
- 1 21. (Unchanged) The apparatus as set forth in Claim 20, wherein the programming
2 instructions determine if a sub-net bandwidth manager (SBM) that manages network
3 bandwidth is connected to a local area network (LAN) through which the CALL is
4 conducted, and if the SBM is connected to the LAN, register the CALL with the SBM
5 and reserve with the SBM bandwidth for subsequent allocation to media streams of
6 the CALL.
- 1 22. (Unchanged) The apparatus as set forth in Claim 21, wherein the programming
2 instructions make the determination, registration and bandwidth reservation for
3 subsequent allocation to media streams of the CALL as an integral part of
4 establishing a connection for the CALL.
- 1 23. (Unchanged) The apparatus as set forth in Claim 21, wherein the programming
2 instructions further subsequently cause the SBM to allocate the reserved bandwidth
3 for the CALL to individual media streams of the CALL.
- 1 24. (Unchanged) The apparatus as set forth in Claim 23, wherein the programming
2 instructions invoke a bandwidth reservation service to request the SBM to allocate the
3 reserved bandwidth for the CALL to individual ones of the media streams of the
4 CALL, providing call level information to the bandwidth reservation service to enable

5 the bandwidth reservation service to include the call level information in the requests
6 for the SBM.

1 25. (Unchanged) The storage medium as set forth in Claim 24, wherein the programming
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a
3 portion of the reserved bandwidth for the CALL to an individual media stream of the
4 CALL while establishing an individual channel for the individual media stream
5 during the CALL.

1 26. (Unchanged) An apparatus comprising:
2 a storage medium having stored therein a plurality of programming
3 instructions implementing a bandwidth reservation service that requests a sub-
4 net bandwidth manager (SBM) to allocate a portion of reserved bandwidth for
5 a packet based multi-media call (CALL) to an individual media stream of the
6 CALL, providing the SBM with call level information to allow the SBM to
7 associate the individual media stream of the CALL with the reserved
8 bandwidth of the CALL, the SBM managing network bandwidth of a local
9 area network (LAN) through which the CALL is conducted; and
10 a processor coupled to the storage medium that operates to execute the
11 programming instructions.

1 27. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming
2 instructions request the SBM to allocate a portion the reserved bandwidth of the
3 CALL to the individual media stream of the CALL while establishing an
4 individual channel for the individual media stream during the CALL.

1 28. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming
2 instructions are integral part of an operating system.